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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/477,164	01/05/2000	JORG BOROWSKI	A72204US	8780
23720	7590	11/30/2004	EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C. 10333 RICHMOND, SUITE 1100 HOUSTON, TX 77042			CHANG, EDITH M	
			ART UNIT	PAPER NUMBER
			2637	

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/477,164	BOROWSKI ET AL.
Examiner	Art Unit	
Edith M Chang	2637	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 12 August 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13, 15, 17 and 19-21 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 6, 15 is/are allowed.

6) Claim(s) _____ is/are rejected.

7) Claim(s) 1-5, 7-13, 17 and 19-21 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 29 April 2004 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “a plurality of receivers” in claim 6 and “interpolator” in claim 10 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2. The receiver 14 pertaining the blank block in Fig.1 need to have descriptive label, in conformance with 37 CFR 1.84(n) and 1.84(o).

Claim Objections

3. Claims 1-5, 7-13, 17, 19-21 are objected to because of the following informalities:

Claim 1, line 2: “comprising” is suggested changing to “comprising the steps of”.

Claim 2, line 2: “a” is suggested changing to “the”.

Claim 3, line 1: “a” is suggested changing to “the”.

Claim 4, line 1 & line 2: “system” is suggested changing to “receiver”.

Claim 5, line 4: “first rate” is suggested changing to “first data rate”.

Claims 7, 8, 9, 10, 11 & 12, line 1: “A” is suggested changing to “The”.

Claim 9, line 3: “code-spread” is suggested changing to “digital”.

Claim 10, line 4: “signal” is suggested changing to “digital signal”.

Claim 11 & Claim 12, line 2: “wherein said communication system is” is suggested changing to “is”.

Claim 13, line 3: “digital signal” is suggested changing to “digital signal having a first data rate”.

Claim 17, Claim 19 & Claim 21, line 1: “The system” is suggested changing to “The spread spectrum communication system”.

Claim 19 & Claim 20, line 4 & line 5: “rate” is suggested changing to “data rate”.

Appropriate corrections are required.

Allowable Subject Matter

4. Claims 6 and 15 are allowed.

5. Claims 1-5, 7-13, 17 and 19-21 would be allowable if rewritten to overcome the objection(s), set forth in this Office action.

6. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or suggest, alone or in a combination, among other things, at least a spread spectrum communication receiver and its method as a whole, the combination of elements and features, which includes the digital signal having the first data rate from the analog to digital converter, downconverted from the digital signal the second signal with the second data rate lower than the first data rate, processed from a digital signal despreader the despread signal having the third data rate lower than the second data rate; and a frequency corrector comprising a frequency offset detector, a frequency correction generator and a combiner in a feedback loop, to combine the frequency correction from the frequency correction generator with the second signal to correct the frequency offset measured from the despread signal by the frequency offset detector.

Conclusion

7. This application is in condition for allowance except for the following formal matters: the informalities stated in the paragraphs 1 to 3 of this office action.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

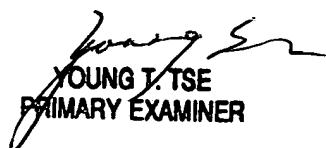
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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M Chang whose telephone number is 571-272-3041. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayanti Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edith Chang
November 22, 2004



YOUNG T. TSE
PRIMARY EXAMINER